

Service Manual

Stereo Integrated Amplifier

Amplifier

SU-V500

Colour

(K) Black Type



Specifications (DIN 45 500)

| | |
|--|------------------------|
| 20 Hz – 20 kHz continuous power output both channels driven | 2 × 30 W (8 Ω) |
| 40 Hz – 20 kHz continuous power output both channels driven | 2 × 27 W (8 Ω) |
| For (GC) area only | 2 × 38 W (8 Ω) |
| 1 kHz continuous power output both channels driven (THD: 1%) | 2 × 50 W (4 Ω) |
| For (GC) area only | 2 × 33 W (8 Ω) |
| | 2 × 40 W (4 Ω) |
| 63 Hz – 12.5 kHz continuous power output both channels driven (THD: 1%) | 2 × 35 W (8 Ω) |
| For (GC) area only | 2 × 45 W (4 Ω) |
| | 2 × 30 W (8 Ω) |
| | 2 × 35 W (4 Ω) |
| Total harmonic distortion rated power at 20 Hz – 20 kHz | 0.1% (8 Ω) |
| Intermodulation distortion (50 Hz: 7 kHz = 4:1, SMPTE) rated power | 0.1% (8 Ω) |
| Residual hum and noise | 1 mV |
| Damping factor | 60 (8 Ω) |
| | 30 (4 Ω) |
| Headphones output level/impedance | 340 mV/47 Ω |
| Load impedance | |
| A or B | 4 – 16 Ω |
| A and B | 8 – 16 Ω |
| Input sensitivity/impedance | |
| PHONO MM | 2.5 mV/47 kΩ |
| TUNER, CD, AUX, TAPE 1, TAPE 2/DCC | 150 mV/22 kΩ |
| Phono maximum input voltage (1 kHz, RMS) MM | 150 mV (IHF '66) |
| S/N (rated power, 4Ω) | |
| PHONO MM | 76 dB (77 dB, IHF '66) |
| For (GC) area only | 76 dB (76 dB, IHF '66) |
| TUNER, CD, AUX, TAPE 1, TAPE 2/DCC | |
| For (GC) area only | 90 dB (95 dB, IHF '66) |
| S/N at – 26 dB power (4 Ω) | 90 dB (94 dB, IHF '66) |
| PHONO MM | 67 dB |
| TUNER, CD, AUX, TAPE 1, TAPE 2/DCC | 70 dB |
| S/N at 50 mW power (4 Ω) | |
| PHONO MM | 63 dB |
| TUNER, CD, AUX, TAPE 1, TAPE 2/DCC | 63 dB |

Areas

| Suffix for Model No. | Area | Colour |
|-------------------------|--|--------|
| (E) | Europe | (K) |
| (EB) | Great Britain | |
| (EG) | Germany and Italy | |
| (EO) | Switzerland | |
| (GC) | Asia, Latin America, Middle Near East and Africa | |
| (GN) | Oceania | |

Frequency response

PHONO MM

RIAA standard curve ±1 dB
(30 Hz – 15 kHz)

TUNER, CD, AUX, TAPE 1, TAPE 2/DCC

3 Hz – 80 kHz (+0, –3 dB)
+0 dB, –0.3 dB (20 Hz – 20 kHz)

Tone controls

BASS

50 Hz, +10 to –10 dB

TREBLE

20 kHz, +10 to –10 dB

Output voltage

TAPE 1, TAPE 2/DCC REC OUT

150 mV

Channel balance (AUX 250 Hz – 6.3 kHz)

±1 dB

Channel separation (AUX 1 kHz)

50 dB

GENERAL

Power consumption

130 W

Power supply

For (E), (EG), and (EO) area

50 Hz/60 Hz AC, 230 V

For (EB), (GN) areas

50 Hz/60 Hz AC, 230 V – 240 V

For (GC) area only

50 Hz/60 Hz AC, 110 V – 127 V / 220 V – 240V

Dimensions (W × H × D)

430 × 125 × 310 mm

Weight

6.0 kg

For (GC) area only

5.4 kg

Notes:

- Specifications are subject to change without notice.
Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.
- For areas except Europe
The specification values given have been measured while using a 240 V
power supply.

For (EB) area only

This apparatus was produced to BS 800.

Technics

■ Contents

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■ Before Repair

- (1) Turn off the power supply. Using a 10 Ω , 10 W resistor, connect both ends of power supply capacitors (C701, C702) in order to discharge the voltage.
 (2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110 V/127 V/220 V/240 V.

| Power supply voltage | AC 230 V | AC 240 V | AC 110~127 V | AC 220~240 V |
|-----------------------|-----------|-----------|--------------|--------------|
| Consumed current 50Hz | 47~157 mA | 45~150 mA | 80~300 mA | 45~150 mA |

■ Protection circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

- * No sound is heard when the power is switched ON.
- * Sound stops during a performance.

The functions of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON again.

For areas except (E) (EB) (EG) (EO) (GN)

CAUTION:

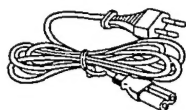
The AC voltage differs according to the area.

Be sure to set the proper voltage in your area before use.

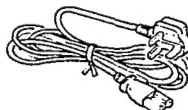
(For details, please refer to page 6.)

■ Accessories

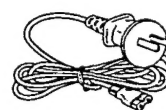
- AC power supply cord



for (E), (EG), (EO), (GC) areas : (RJA0019-2K)

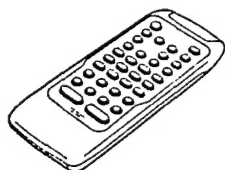


for (EB) area : (VJA0733)



for (GN) area : (RJA0036-K)

- Remote control transmitter
(RAK-SU129WH)



- Batteries
(UM-4, "AAA", R03)

Note: These are available on sales route.



- Power plug adaptor
(SJP5213-2)

for (GC) area only





■ Caution for AC Mains Lead (For United Kingdom)

("EB" area code model only)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark  or the BSI mark  on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION!

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY.

THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:


Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

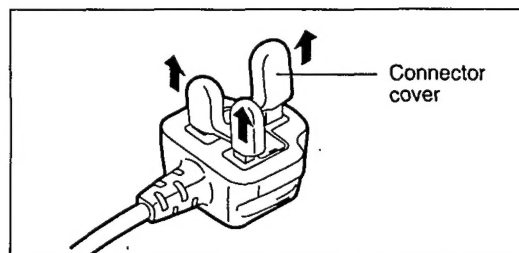
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol .

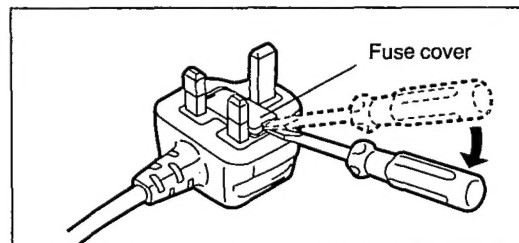
Before use

Remove the connector cover as follows.

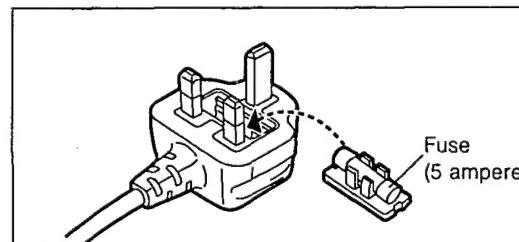


How to replace the fuse

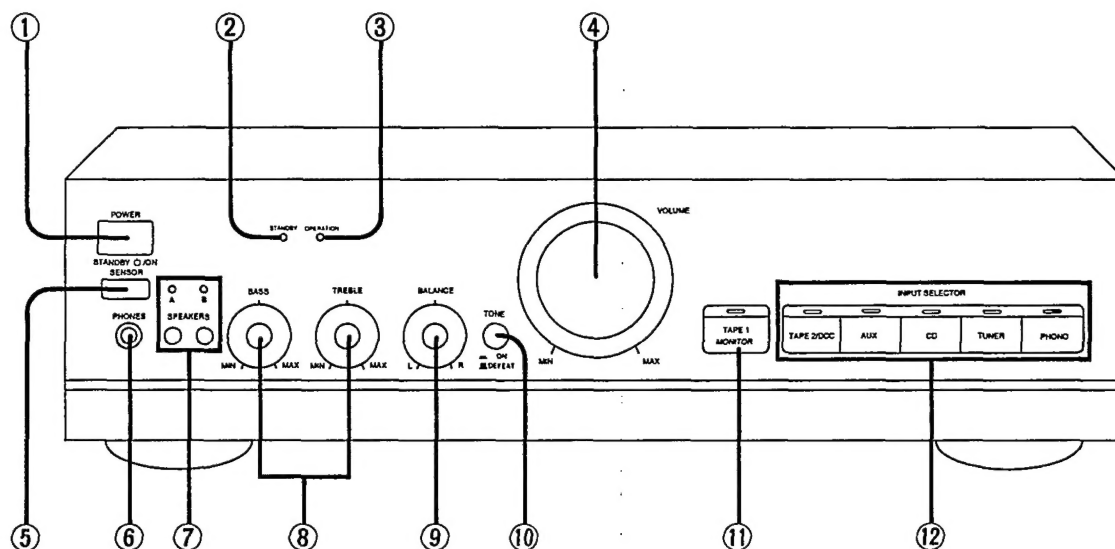
1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



■ Front Panel Controls



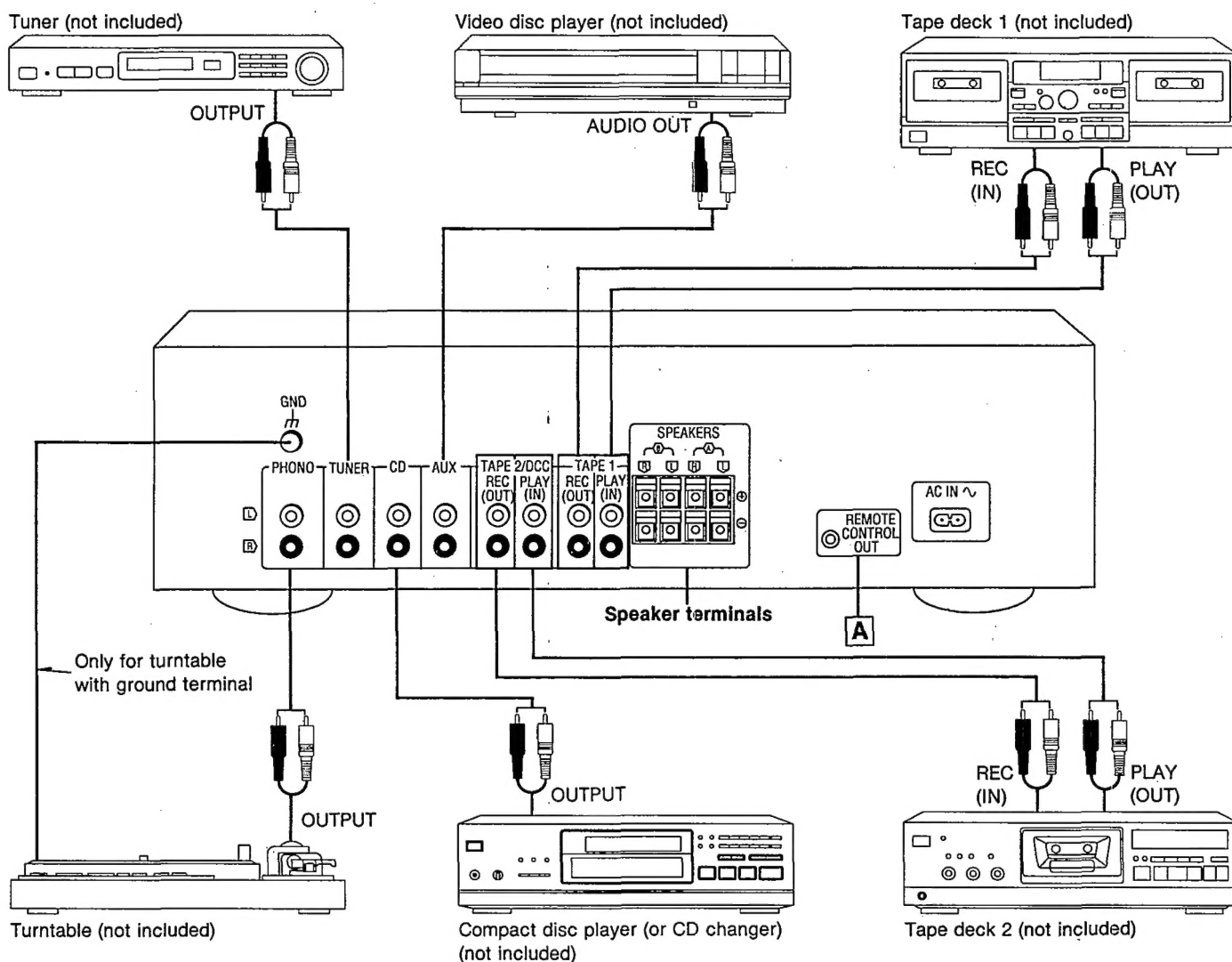
| No. | Name |
|-----|--|
| ① | Power "STANDBY ⏻ /ON" switch (POWER, STANDBY ⏻ /ON) Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power. |
| ② | "STANDBY" indicator (STANDBY) When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on. |
| ③ | Operation indicator (OPERATION) When the power is switched ON, this indicator illuminates after about 2 seconds when the unit is in the operating condition. If an abnormal condition in the circuitry is detected, such as a short-circuit of the positive (+) and negative (−) wires from the speaker terminals, the protection circuit functions and this indicator will not illuminate. |
| ④ | Volume control (VOLUME) |
| ⑤ | Remote control signal receptor (SENSOR) Receives the signals from the remote control. |
| ⑥ | Headphones jack (PHONES) |

| No. | Name |
|-----|---|
| ⑦ | Speaker select buttons/indicators (SPEAKERS) |
| ⑧ | Tone controls (BASS/TREBLE) |
| ⑨ | Balance control (BALANCE) |
| ⑩ | Tone control button (TONE) |
| ⑪ | TAPE 1 MONITOR button/indicator (TAPE 1 MONITOR) |
| ⑫ | Input select buttons/indicators (INPUT SELECTOR) |

■ Connections

To connect to each terminal

Make connections to each component in the system by using stereo connection cables (not included).



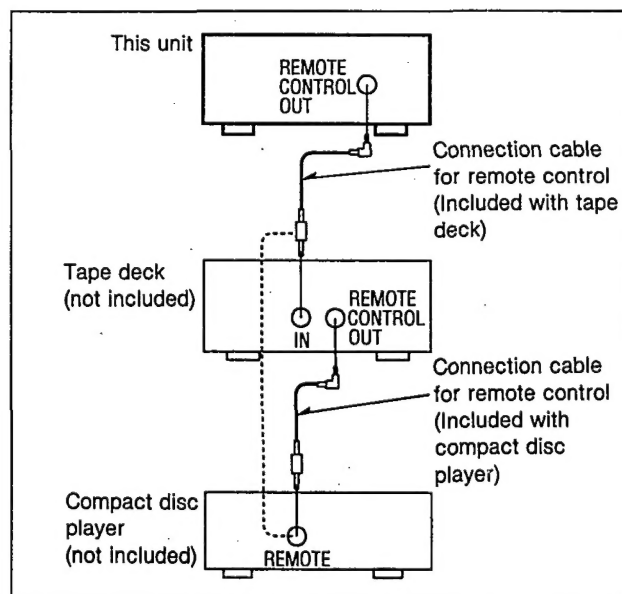
A "REMOTE CONTROL OUT" terminal

Connect the connection cable for the remote control to a Technics tape deck and/or CD player (or CD changer) which has the appropriate remote control terminal as shown at the right.

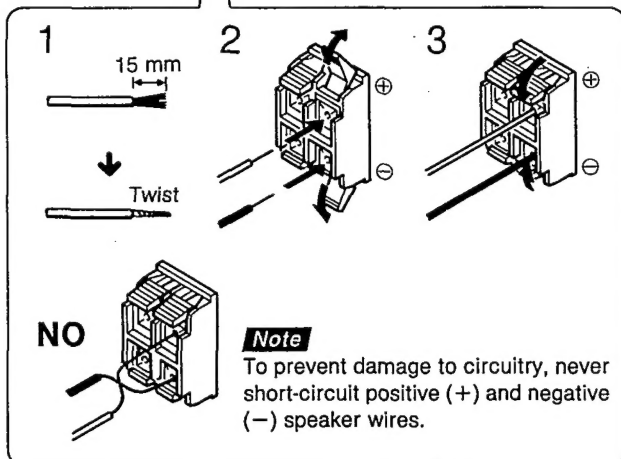
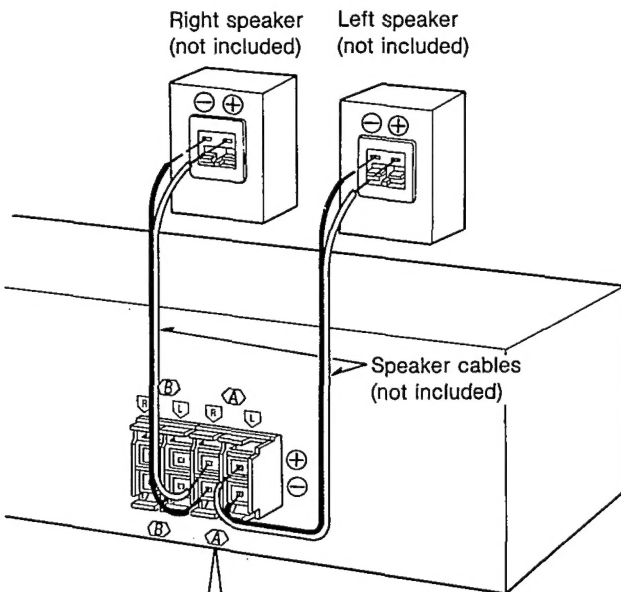
If a tape deck is not being used, the CD player (or CD changer) can be connected directly (dotted line).

Note

For a tape deck and/or CD player (or CD changer) with a remote control sensor, this connection is not necessary.



To connect the speakers



■ "B" terminals

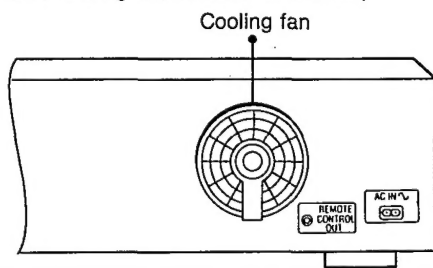
For connection to a second pair of speakers.

■ Speaker impedance

- When only the "A" or only the "B" terminals are used: 4–16 ohms
- When both the "A" and the "B" terminals are used simultaneously: 8–16 ohms

About the cooling fan

The cooling fan operates at high power output levels only.
(There is no cooling fan for some countries.)



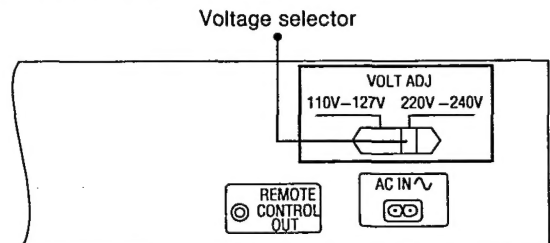
To connect the AC power supply cord

FOR UNITED KINGDOM ONLY
BE SURE TO READ THE CAUTION FOR THE AC POWER SUPPLY CORD ON PAGE 3 BEFORE CONNECTING THE AC POWER SUPPLY CORD.

For areas except United Kingdom, Europe, Australia and N.Z.

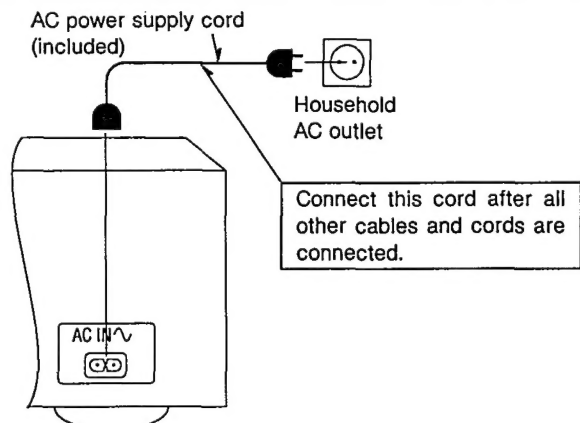
Be sure to set the voltage selector to "110 V–127 V" or "220 V–240 V" according to the area in which the unit will be used.

[Use a minus (–) screwdriver]



Note

Note that this unit will be seriously damaged if this setting is not made correctly.

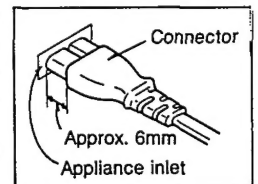


(For areas except Australia and N.Z.)

Insertion of Connector

Even when the connector is perfectly inserted, depending on the type of inlet used, the front part of the connector may jut out as shown in the drawing.

However there is no problem using the unit.

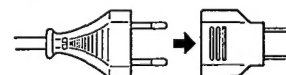


Note

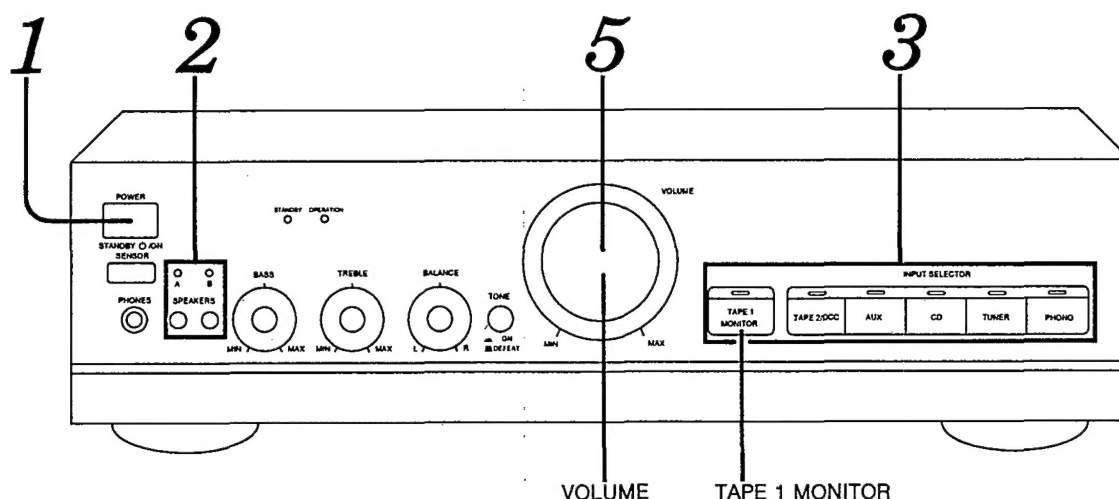
The configuration of the AC power supply cord differs according to area.

Not supplied for United Kingdom, Europe, Australia and N.Z.

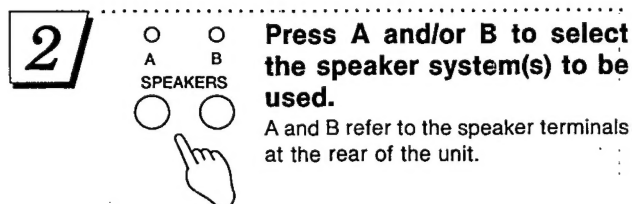
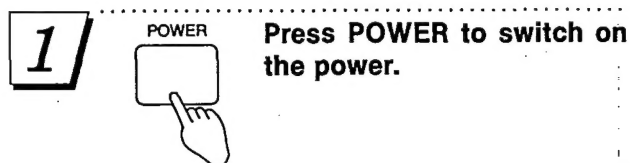
If the power plug will not fit your socket, use the power plug adaptor (included).



■ Listening to Sound



Before operation, set VOLUME to the "MIN" position.



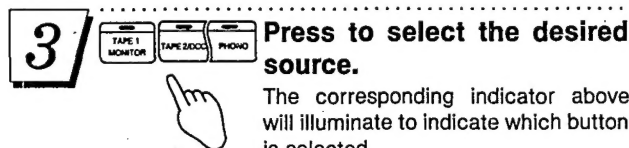
The corresponding indicator above will illuminate to indicate which speaker system is selected.

A: Sound can be heard from the speakers connected to the "A" terminals.

B: Sound can be heard from the speakers connected to the "B" terminals.

A and B: Sound can be heard simultaneously from the speakers connected to the "A" terminals and the "B" terminals.

off: No sound will be heard from the speakers. (Both indicators will turn off.)



Press to select the desired source.

The corresponding indicator above will illuminate to indicate which button is selected.

TAPE 1 MONITOR: To listen to tape (TAPE 1). The tape monitor indicator will illuminate. (See below.)

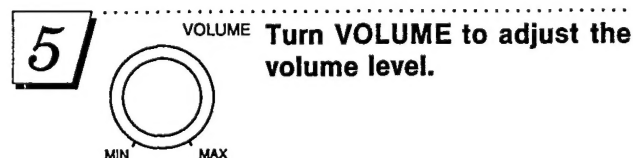
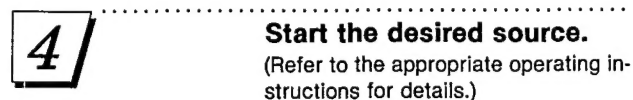
TAPE 2/DCC: To listen to tape (TAPE 2) or digital compact cassette (DCC).

AUX: To listen to equipment connected to the "AUX" terminals.

CD: To listen to compact discs.

TUNER: To listen to radio broadcasts.

PHONO: To listen to phono discs.



After listening is finished

Be sure to reduce the volume level, and turn the unit off by pressing POWER.

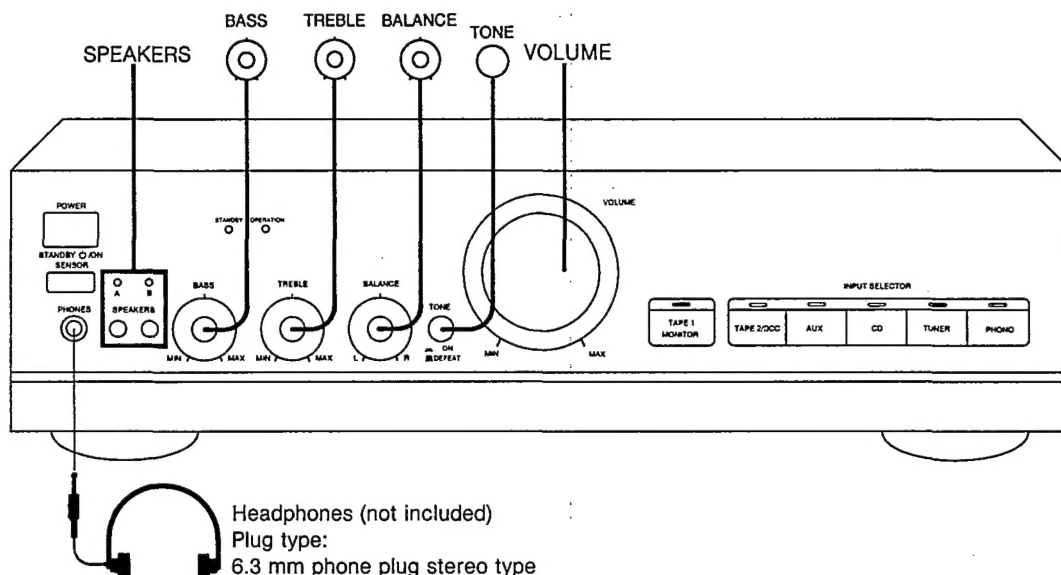
When tape 1 monitor indicator illuminates

Illuminates



This indicates that the tape monitor function of this unit is ON.

To listen to sources other than a tape (TAPE 1), be sure to turn off the indicator by pressing TAPE 1 MONITOR.



To adjust the tone quality

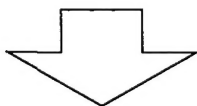
TONE



ON
DEFEAT

Set TONE to the "ON" position.

If set to the "DEFEAT" position, tone controls have no effect.



BASS



Turn BASS to adjust the low-frequency sound.

TREBLE



Turn TREBLE to adjust the high-frequency sound.

To adjust the sound balance

BALANCE



Turn BALANCE to adjust the left/right sound balance.

When listening through headphones

Use VOLUME to reduce the volume level, and connect the headphones.

If sound from speakers is not wanted, press SPEAKERS (A) and/or (B) to turn off the speaker select indicators.

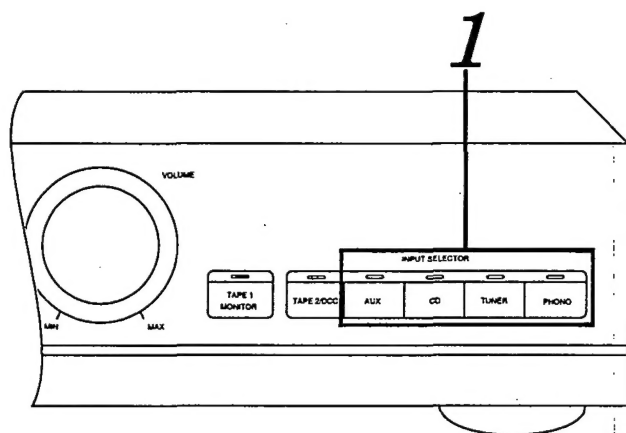
Note

Avoid listening for prolonged periods of time to prevent hearing damage.

■ Recording

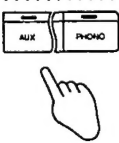
To record from compact discs, etc.

It is possible to record from units which are connected to the rear "AUX", "CD", "TUNER" or "PHONO" terminals to cassette tape decks or DCC decks which are connected to the "TAPE 1" or "TAPE 2/DCC" terminals.



Before recording, prepare the tape deck or DCC for recording (recording level adjustment, etc.).

See the tape deck's or DCC's operating instructions for details.

- 1**  **Select the program source to be recorded.**
AUX: To record from equipment connected to the "AUX" terminals.
CD: To record from compact discs.
TUNER: To record from radio broadcasts.
PHONO: To record from phono discs.

- 2** **Begin recording.**
Follow your tape deck's or DCC's operating instructions.

- 3** **Begin the source to be recorded.**

Note

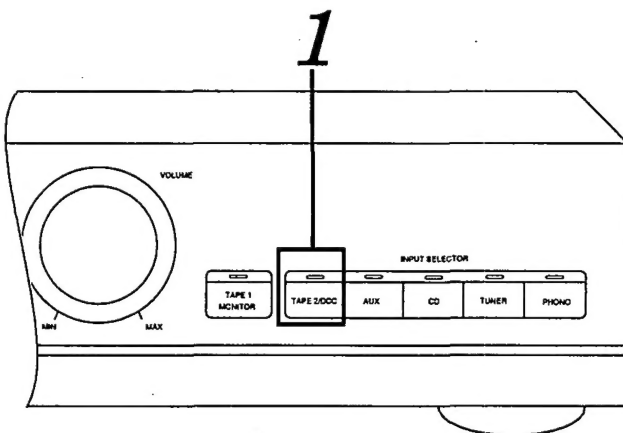
If recording to both decks simultaneously, do not press TAPE 1 MONITOR. (If this button is pressed, it will not be possible to record to the deck which is connected to the "TAPE 2/DCC" terminals.)

To check the sound recorded while recording is being made

If a cassette tape deck with 3 heads is connected to the "TAPE 1" terminals, it is possible to check the sound being recorded on-to the tape.

Tape-to-tape recording


It is possible to record from tape deck 2 (the cassette tape deck or DCC deck which is connected to the "TAPE 2/DCC" terminals) to tape deck 1 (the cassette tape deck which is connected to the "TAPE 1" terminals).



Preparation

- Before recording, prepare the tape deck for recording (recording level adjustment, etc.).
See the tape deck's operating instructions for details.
- Load tapes which have been advanced to the end of the leader tape into both decks.

Tape deck 1: For recording **Tape deck 2:** For playback.

- 1**  **Press TAPE 2/DCC.**


- 2** **Begin recording on tape deck 1.**
Follow your tape deck's operating instructions.

- 3** **Begin tape playback on tape deck 2.**

For your reference

When recording from tape deck 1 to tape deck 2, press TAPE 1 MONITOR in step 1 above, and then start recording on tape 2 and begin playback on tape 1.

At this time, make sure that the input selector is set to a position other than "TAPE 2/DCC". (This is because monitoring of the unit connected to the "TAPE 2/DCC" terminals is not possible.)

-  Press TAPE 1 MONITOR (indicator will illuminate.) on this unit and set the monitor button on the tape deck to "TAPE".

Press TAPE 1 MONITOR once again to turn it off.

■ Operation Checks and Main Component Replacement Procedures

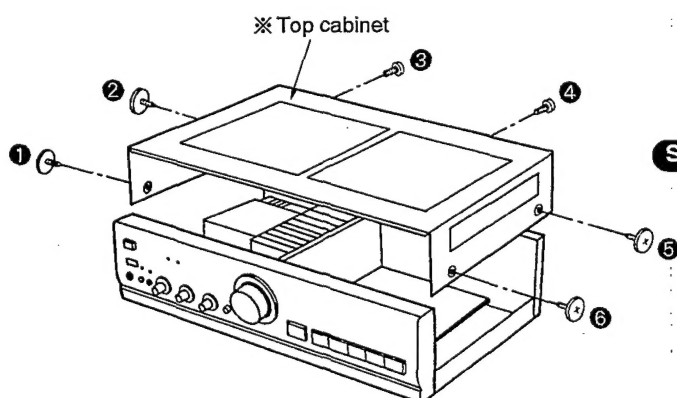
NOTE

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.

• Contents

| | page. |
|--|-------|
| 1. Checking for the Volume P.C.B. /Operation P.C.B. /Tone AMP P.C.B. | 11. |
| 2. Checking for the Main P.C.B. | 12. |
| 3. Replacement for power IC. | 13. |

1. Common disassembly procedures (Follow this procedure prior to other disassembly.)





Step 1 Remove the 6 screws.

- NOTE** 1. Illustrated screws are equivalent to actual size.
2. [] indicates parts No.

※ RKM0036E-K(EB,EO,GC)

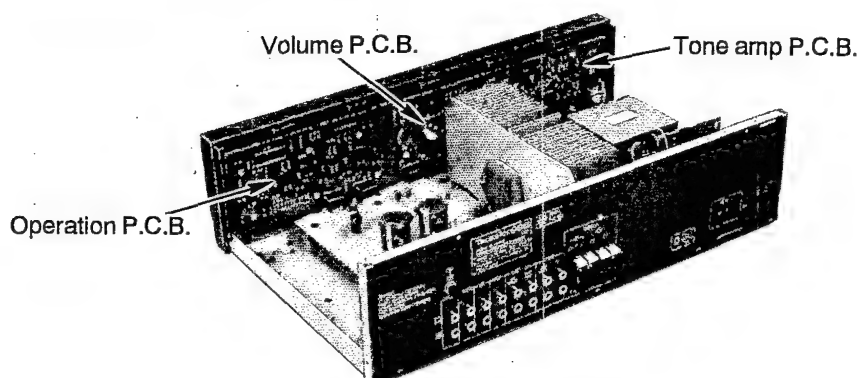
※ RKM0036D-K(E,EG,GN)

 1, 2, 5, 6
[RHD30035-K] (Black)

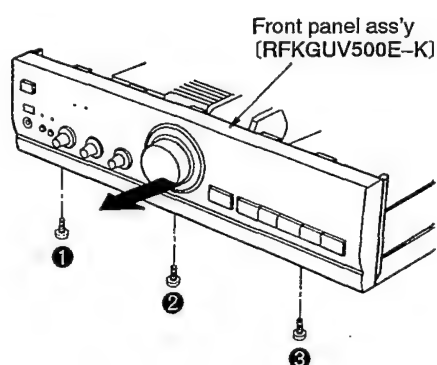
 3, 4
[XTBS3+8JFZ1] (Black)

2. Checking for the Volume P.C.B. /Operation P.C.B. /Tone AMP P.C.B.

Step 1 Follow the disassembly procedure described in item 1 on page 10.

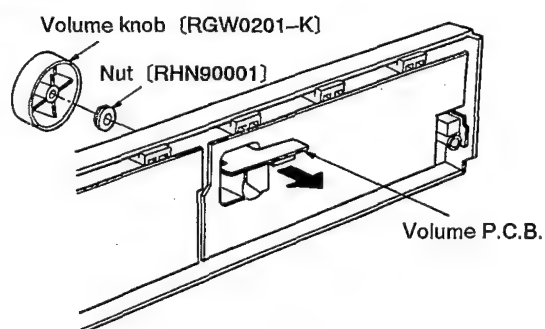


Step 2 Remove the 3 screws.



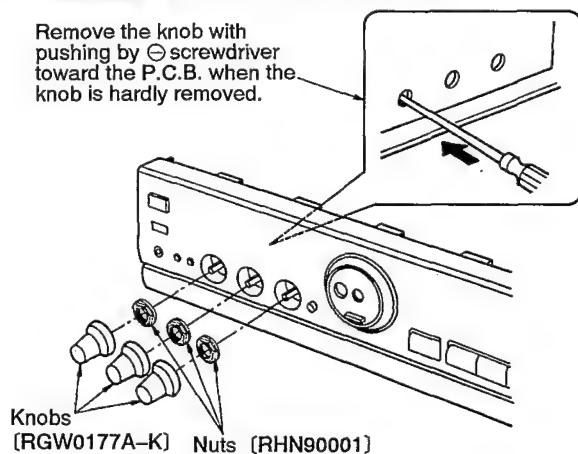
Step 3 Remove the knob and nut.

Step 4 Remove the volume P.C.B.

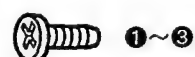
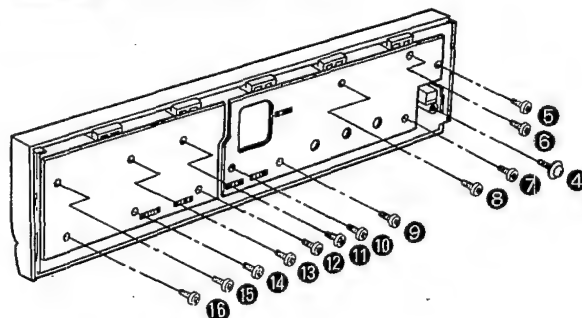


Step 5 Remove the knobs and nuts.

Remove the knob with pushing by ⊖ screwdriver toward the P.C.B. when the knob is hardly removed.



Step 6 Remove the 13 screws.



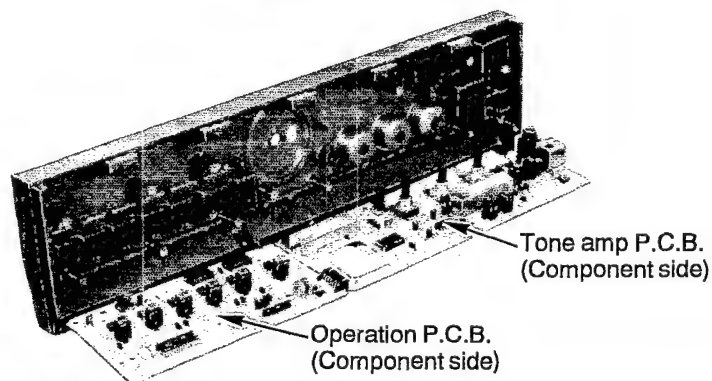
[XTBS3+8JFZ1] (Black)



[RHD26018]

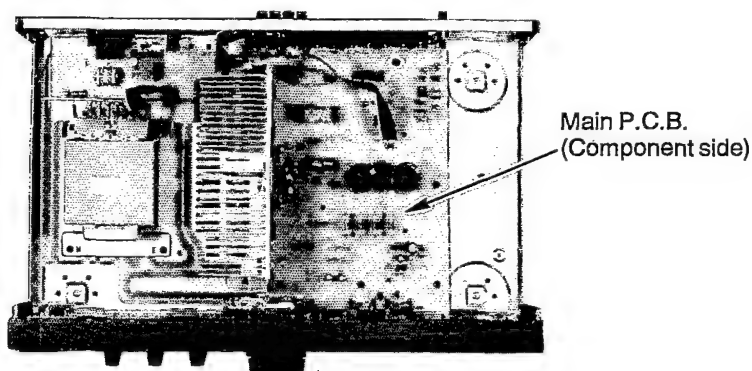


[RHD26017]

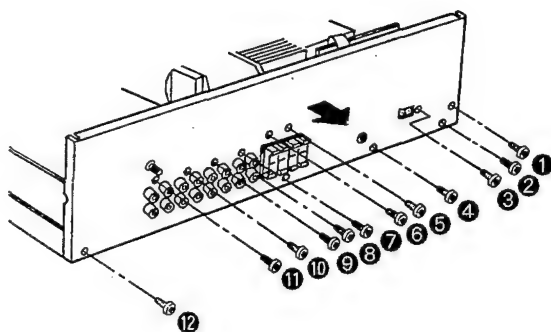


3. Checking for the Main P.C.B.

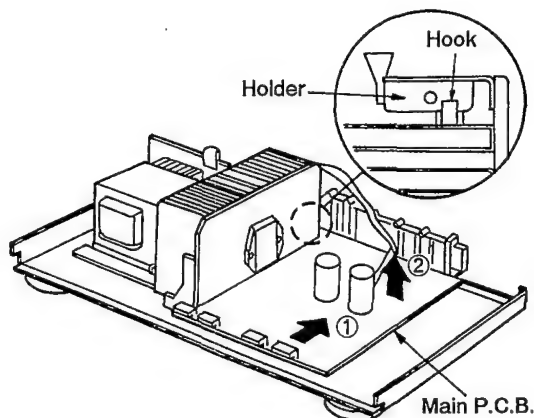
Step 1 Follow the disassembly procedure described in item 1 on page 10.



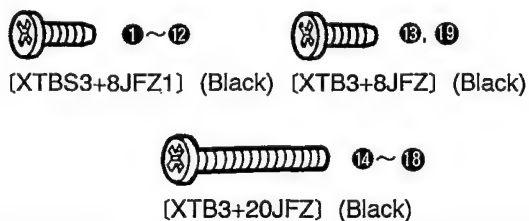
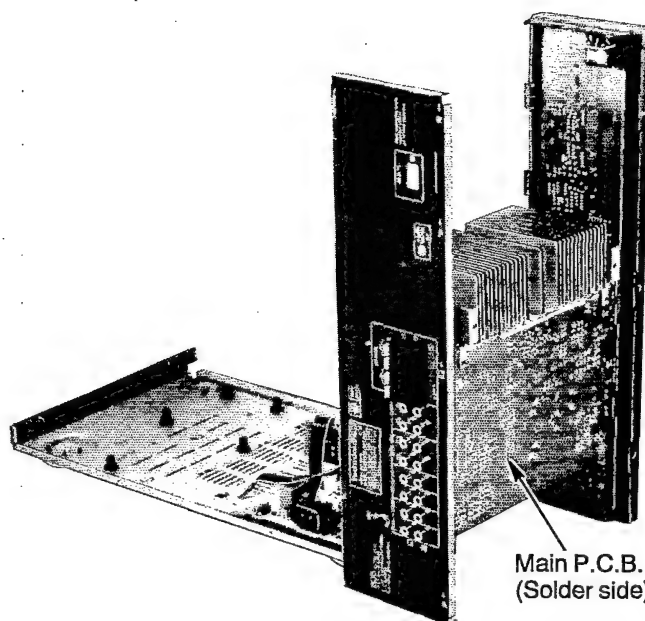
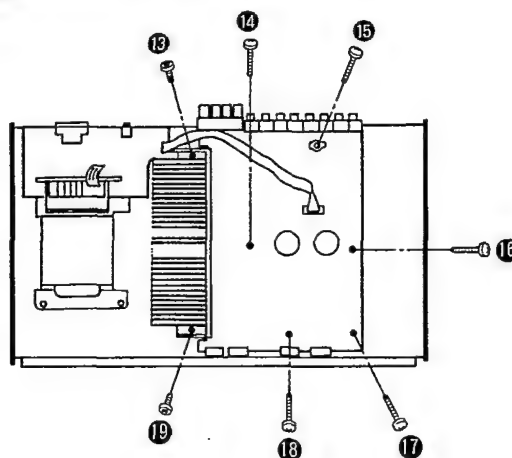
Step 2 Remove the 12 screws.



Step 4 Remove the main P.C.B. in the direction of arrow ①, ②.



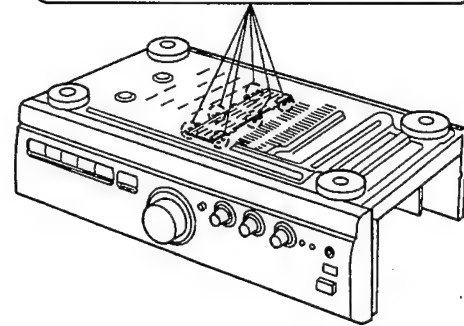
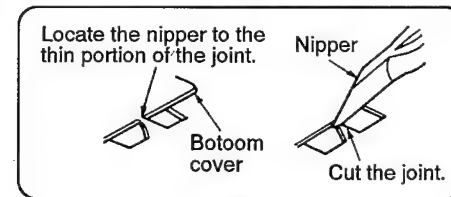
Step 3 Remove the 7 screws.



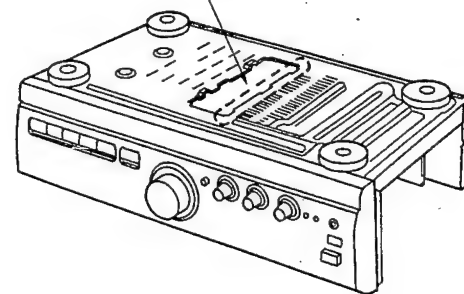
4. Replacement for power IC.

Step 1 Follow the disassembly procedure described in item 1 on page 10.

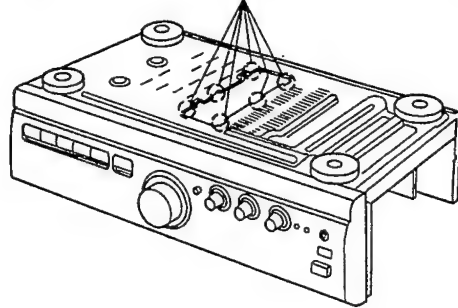
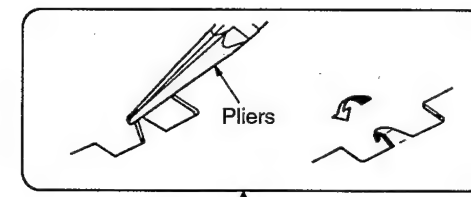
Step 2 Cut the joints as shown below.(6 portions)



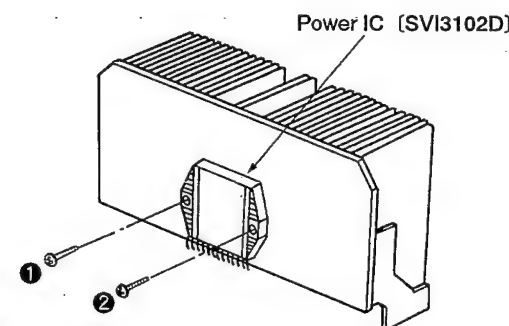
Step 4 Remove the solder of power IC.



Step 3 Fold the joints.(6 portions)



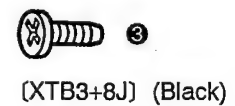
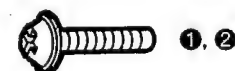
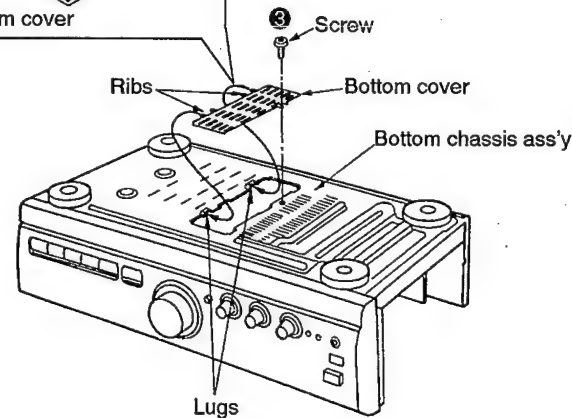
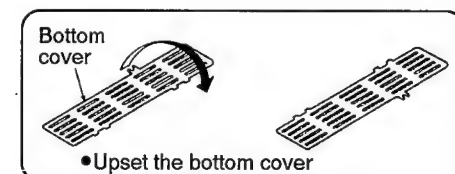
Step 5 Remove the 2 screws.



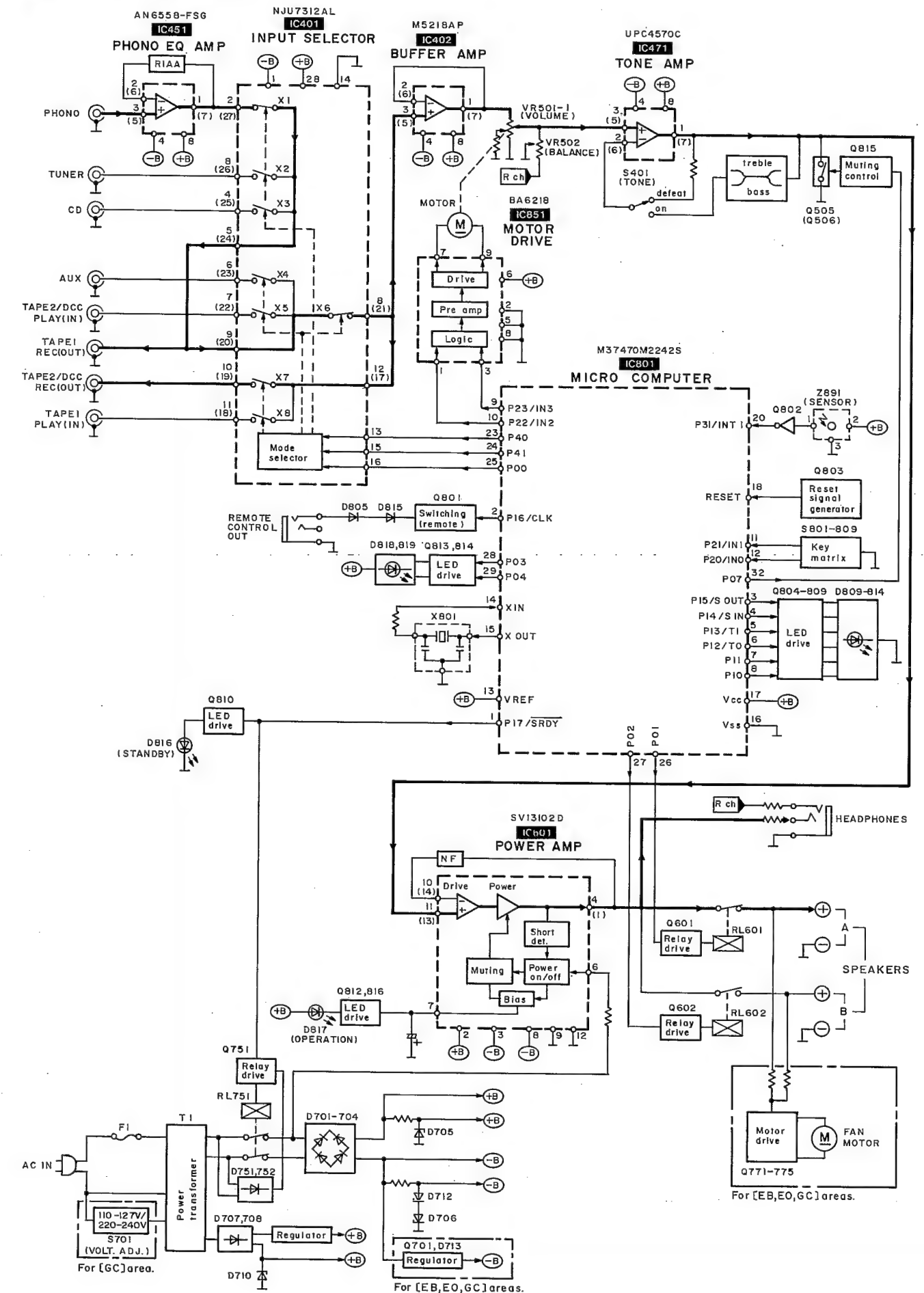
CAUTION

- After replacing the power IC, apply a sufficient quantity of compound grease (RFKX0002/SZZ0L15) between the heat sink and the power IC (Radiation of power IC)
- Tighten enough the screws (1, 2) after replacing the power IC. Otherwise, the heat radiation works little.

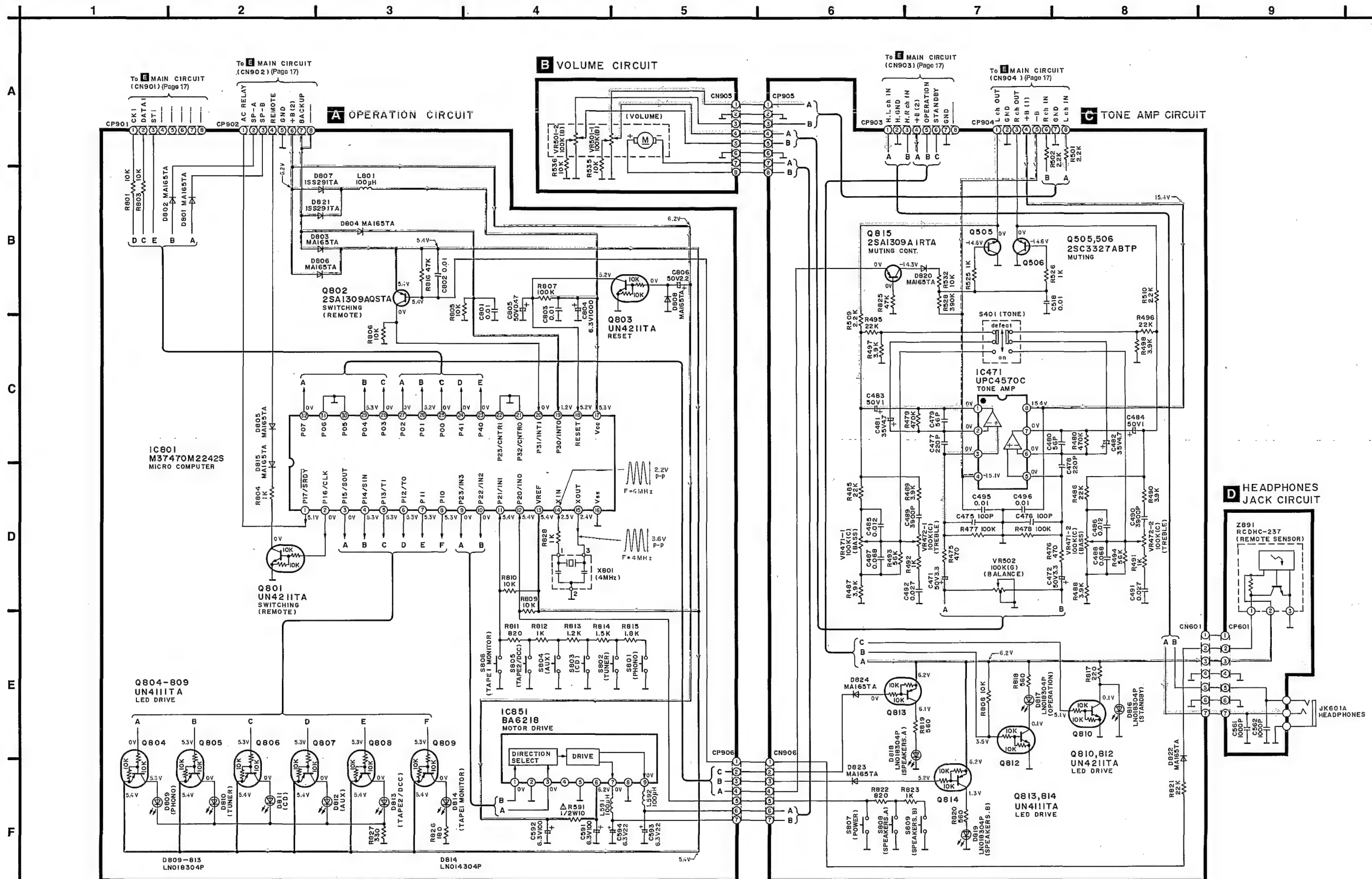
Step 6 Fix the bottom cover with screw.

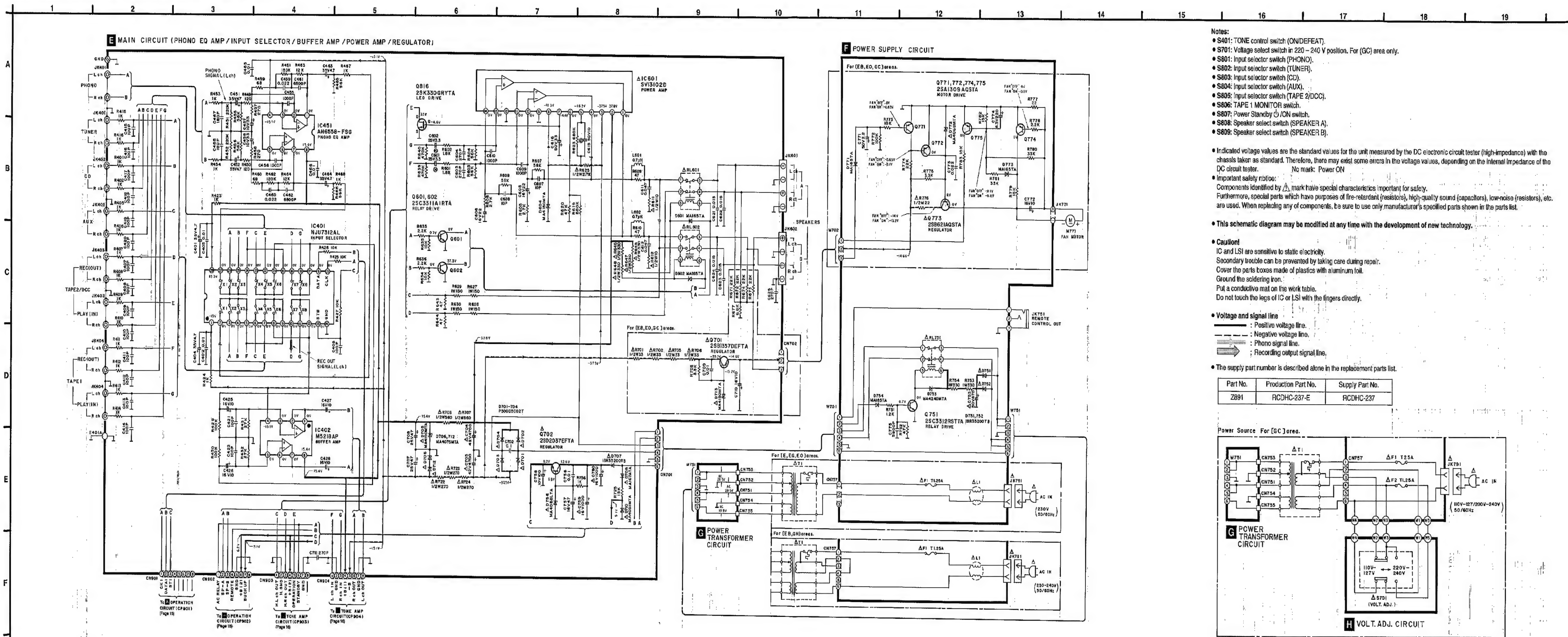


■ Block Diagram

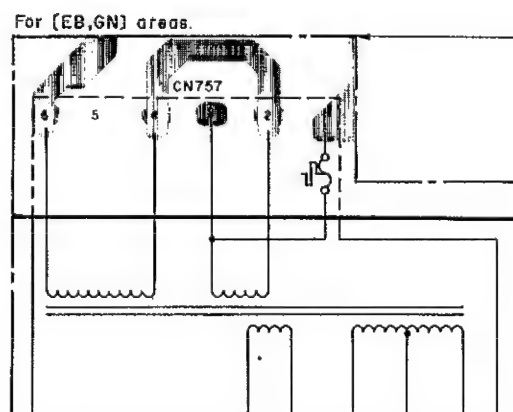
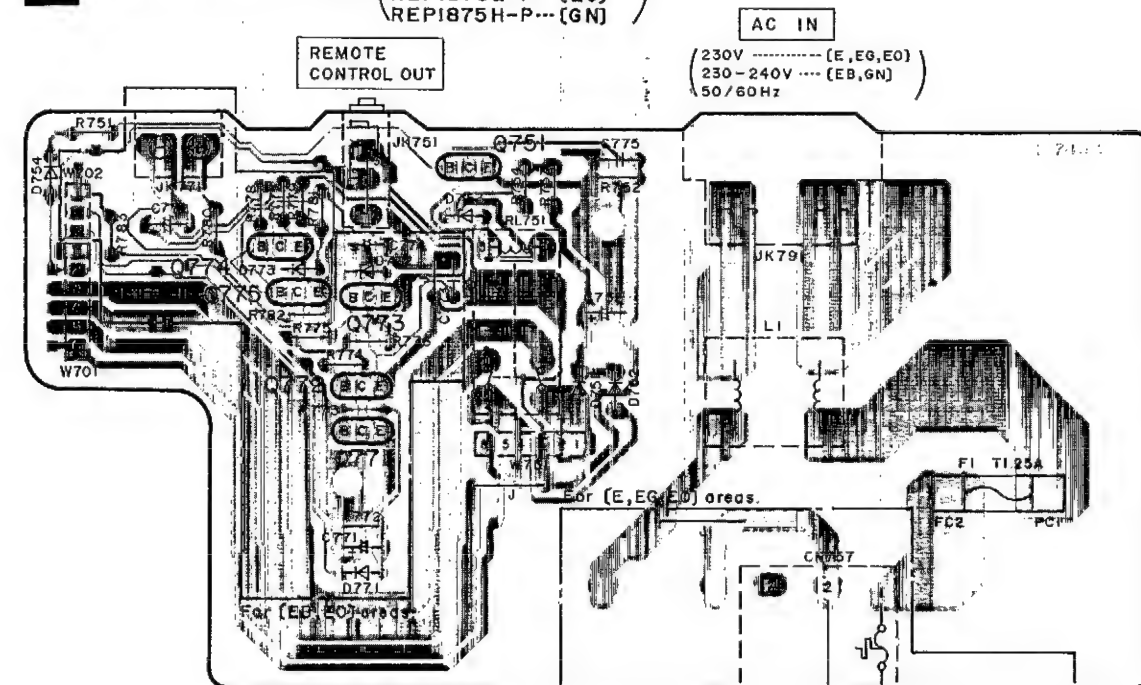


Schematic Diagram • Operation/Volume/Tone Amp./Headphones Jack Circuit (Parts list on page 29~31.)





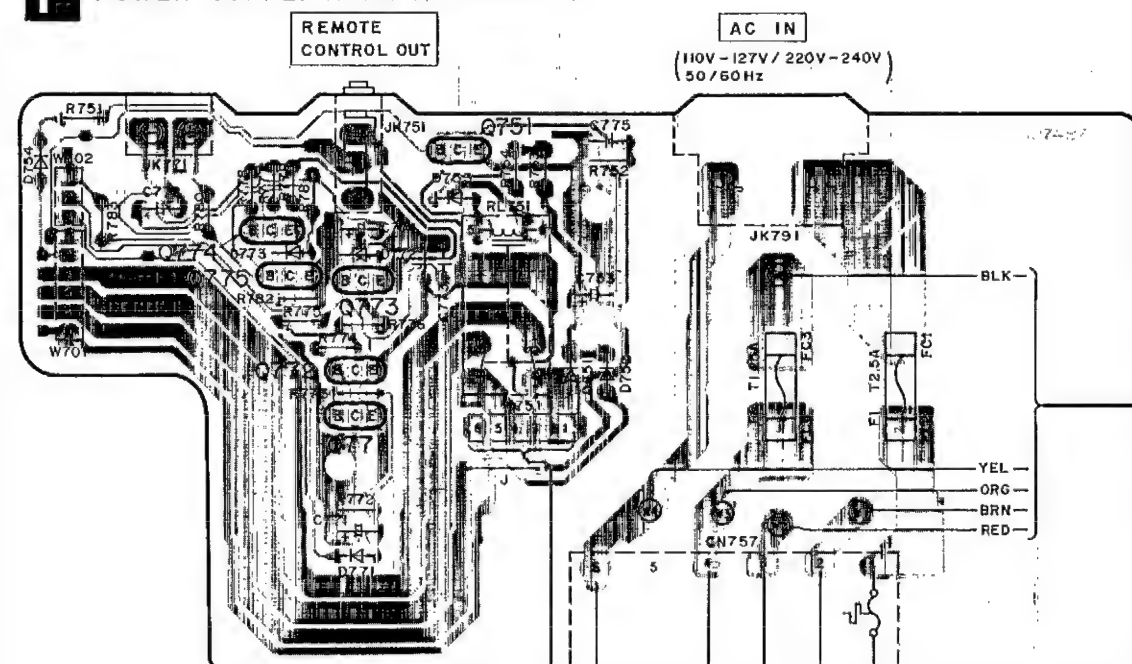
F POWER SUPPLY P.C.B. (REPI875A-P... [E,EG] REPI875C-P... [EB] REPI875E-P... [EO] REPI875H-P... [GN])



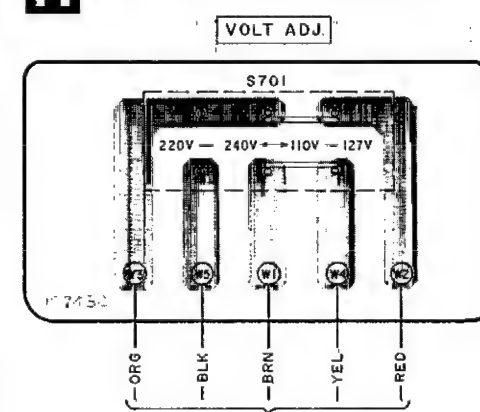
G POWER TRANSFORMER P.C.B. (REPI875A-P... [E,EG] REPI875C-P... [EB] REPI875E-P... [EO] REPI875H-P... [GN])

Power Source P.C.B. For [GC] area.

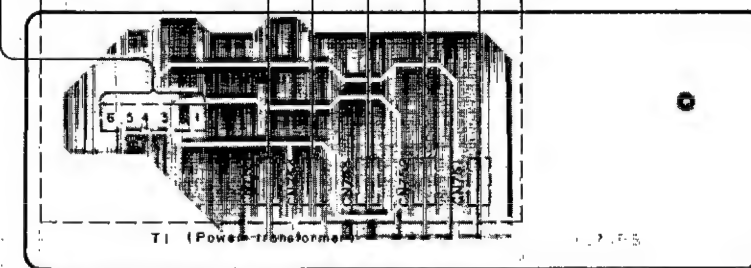
F POWER SUPPLY P.C.B. (REPI875G-P)



H VOLT. ADJ. P.C.B. (REPI875G-P)



G POWER TRANSFORMER P.C.B. (REPI875G-P)



• Terminal guide of IC's, transistors and diodes

| | | | | |
|-----------------------------------|--|--|--|---------------------------------|
| M5218AP | AN6558-FSG | M37470M2242S | UPC4570C NJU7312AL 8 Pin 28 Pin | SVI3202D |
| BA6218 | 2SB621AQSTA | 2SA1309AIRTA 2SA1309A-R 2SC3311AIRTA 2SC3312R UN4111 UN4211 | 2SC3327-A | 2SB1357DEFTA 2SD2037EFTA |
| 2SK330GRYTA | MA165 MA167 1SS291TA 1SR35200TB | MA4051MTA MA4068L MA4068M MA4075MTA | P300D5002T | |
| MA4150M MA4160M MA4240H | LN014304P LN018304P | | | |

■ Replacement Parts List

Notes: *Important safety notice:
 Components identified by Δ mark have special characteristics Important for safety.
 Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
 When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
 *The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
 Parts without these indications can be used for all areas.
 *Remote Control Ass'y: Supply period for three years from termination of production.
 *The "(SF)" mark denotes the standard part.

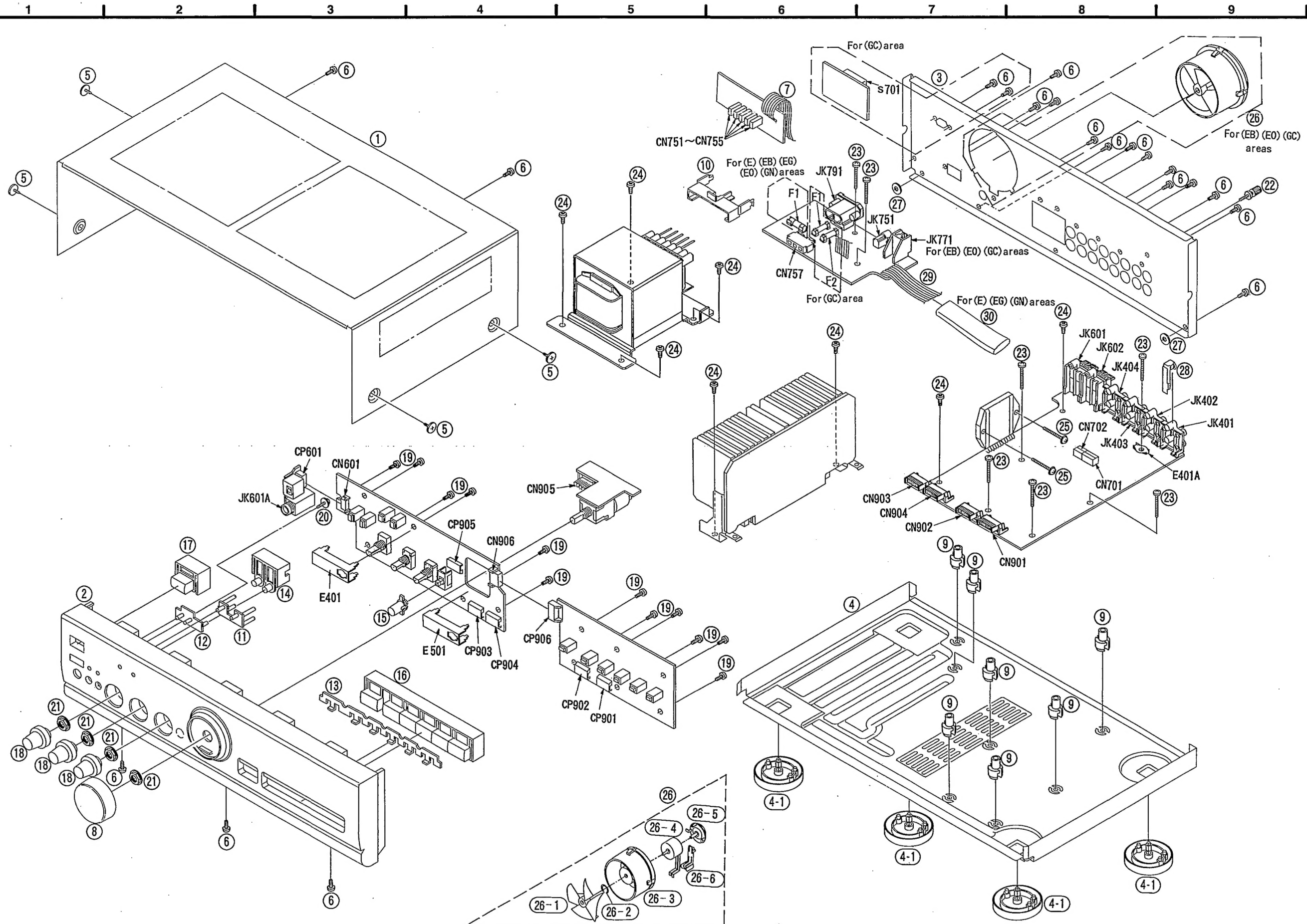
| Ref. No. | Part No. | Part Name & Description | Remarks | Ref. No. | Part No. | Part Name & Description | Remarks |
|-----------|--------------|-------------------------|------------------|-----------|--------------|--------------------------|---------------------------|
| | | INTEGRATED CIRCUIT(S) | | D756 | MA4068L | DIODE | △ |
| | | | | D771 | MA165 | DIODE | (EB) (EO) (GC) |
| | | | | D772 | MA4068M | DIODE | (EB) (EO) (GC) △ |
| IC401 | NJU7312AL | I. C. INPUT SELECTOR | | D773 | MA165 | DIODE | (EB) (EO) (GC) |
| IC402 | MS218AP | I. C. BUFFER AMP. | | D801-806 | MA165 | DIODE | |
| IC451 | AN6558-FSG | I. C. PIANO EQ AMP. | | D807 | ISS291TA | DIODE | |
| IC471 | UPC4570C | I. C. TONE AMP. | | D808 | MA165 | DIODE | |
| IC601 | SV13102D | I. C. POWER AMP. | △ | D809-813 | LN018304P | L. E. D. | |
| IC801 | M37470M2242S | I. C. MICRO COMPUTER | | D814 | LN014304P | L. E. D. | |
| IC851 | RA6218 | I. C. MOTOR DRIVE | | D815 | MA165 | DIODE | |
| | | TRANSISTOR(S) | | D816-819 | LN018304P | L. E. D. | |
| | | | | D820 | MA165 | DIODE | |
| Q505, 506 | 2SC3327-A | TRANSISTOR | | D821 | ISS291TA | DIODE | |
| Q601, 602 | 2SC3311A1RTA | TRANSISTOR | | D822-824 | MA165 | DIODE | |
| Q701 | 2SB1357DEFTA | TRANSISTOR | (EB) (EO) (GC) △ | | | VARIABLE RESISTOR(S) | |
| Q702 | 2SD2037EFTA | TRANSISTOR | △ | | | | |
| Q751 | 2SC3312R | TRANSISTOR | | VR471 | EVJYA1F04C15 | V. R. BASS CONT. | |
| Q771, 772 | 2SA1309A-R | TRANSISTOR | (EB) (EO) (GC) | VR472 | EVJYA1F04C15 | V. R. TREBLE CONT. | |
| Q773 | 2SB621AQSTA | TRANSISTOR | (EB) (EO) (GC) △ | VR501 | EDMAG2020B15 | V. R. MAIN VOLUME | |
| Q774, 775 | 2SA1309A-R | TRANSISTOR | (EB) (EO) (GC) | VR502 | EVJQZ0F04G15 | V. R. BALANCE CONT. | |
| Q801 | UN4211 | TRANSISTOR | | | | COMPONENT COMBINATION(S) | |
| Q802 | 2SA1309A-R | TRANSISTOR | | | | | |
| Q803 | UN4211 | TRANSISTOR | | Z891 | RCN1C-237 | REMOTE SENSOR | |
| Q804-809 | UN4111 | TRANSISTOR | | | | COIL(S) | |
| Q810 | UN4211 | TRANSISTOR | | | | | |
| Q812 | UN4211 | TRANSISTOR | | | | | |
| Q813, 814 | UN4111 | TRANSISTOR | | L1 | RLQZ271M | COIL | (E) (EB) (EG) (EO) (GN) △ |
| Q815 | 2SA1309AIRTA | TRANSISTOR | | L591, 592 | ELESN101KA | COIL | |
| Q816 | 2SK330GRYTA | TRANSISTOR | | L601, 602 | RLQYR73M | COIL | |
| | | DIODE(S) | | L801 | ELEXT101KA9 | COIL | |
| | | | | | | TRANSFORMER(S) | |
| D601, 602 | MA165 | DIODE | | T1 | RTPIV5E001-W | POWER TRANSFORMER | (E) (EG) (EO) △ |
| D604 | MA4160M | DIODE | | T1 | RTPIV5B001-W | POWER TRANSFORMER | (EB) (GN) △ |
| D701-704 | P300D5062T | DIODE | △ | T1 | RTP2M5B005 | POWER TRANSFORMER | (GC) △ |
| D705 | MA4150M | DIODE | △ | | | OSCILLATOR(S) | |
| D706 | MA4075MTA | DIODE | △ | X801 | EF0EC1004T4 | OSCILLATOR (4MHz) | |
| D707 | 1SR35200TB | DIODE | △ | | | FUSE(S) | |
| D708 | MA167 | DIODE | △ | | | | |
| D710 | MA4051MTA | DIODE | △ | F1 | XRA2C10TB0 | FUSE 250V T1. 25A | (E) (EB) (EG) (EO) (GN) |
| D712 | MA4075MTA | DIODE | △ | | | | |
| D713 | MA4150M | DIODE | (EB) (EO) (GC) △ | | | | |
| D751, 752 | 1SR35200TB | DIODE | △ | | | | |
| D753 | MA4240H | DIODE | | | | | |
| D754 | MA165 | DIODE | | | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|-----------|--------------|-------------------------|---------------------------|
| F1 | XBA2C25TB0 | FUSE 250V T2.5A | (GC) Δ |
| F2 | XBA2C10TB0 | FUSE 250V T1.25A | (GC) Δ |
| | | SWITCH(ES) | |
| S401 | ESB68047 | SW, TONE | |
| S701 | ESQ26200A | SW, VOLTAGE SELECTOR | (GC) Δ |
| S801 | EVQ21405R | SW, PIRNO | |
| S802 | EVQ21405R | SW, TUNER | |
| S803 | EVQ21405R | SW, CD | |
| S804 | EVQ21405R | SW, AUX | |
| S805 | EVQ21405R | SW, TAPE2/DCC | |
| S806 | EVQ21405R | SW, TAPE1 MONITOR | |
| S807 | EVQ21405R | SW, POWER | |
| S808 | EVQ21405R | SW, SPEAKER(A) | |
| S809 | EVQ21405R | SW, SPEAKER(B) | |
| | | JACK(S) | |
| JK401 | SJF3069N | PHONO/TUNER | |
| JK402 | SJF3069N | CD/AUX | |
| JK403 | SJF3069N | TAPE2/DCC | |
| JK404 | SJF3069N | TAPE1 | |
| JK601A | RJJB3TS01 | HEADPHONES JACK | |
| JK601 | RJR0054M | SPEAKER(A) | |
| JK602 | RJR0054M | SPEAKER(B) | |
| JK751 | RJJ33TR01 | REMOTE CUT | |
| JK771 | RJS1A7002-1 | FAN CONNECTOR | (EB) (EO) (GC) |
| JK791 | SJS9236 | AC INLET | (E) (EB) (EG) (EO) (GC) Δ |
| JK791 | SJS016 | AC INLET | (GN) Δ |
| | | CONNECTOR(S) | |
| CN601 | RJX057W007 | SOCKET (7P) | |
| CN701 | RJS1A6606 | SOCKET (6P) | |
| CN702 | RJS1A6603 | SOCKET (3P) | (EB) (EO) (GC) |
| CN751-755 | RJS1A1101T1 | SOCKET (1P) | |
| CN757 | SJS305-1 | SOCKET (3P) | (E) (EG) (EO) |
| CN757 | SJS702-1 | SOCKET (6P) | (EB) (GC) (GN) |
| CN901-905 | RJX003KD08M1 | SOCKET (8P) | |
| CN906 | SJS5078ZJQH | SOCKET (7P) | |
| CP601 | RJT057W007-1 | CONNECTOR (7P) | |
| CP901-905 | RJT003KD08-1 | CONNECTOR (8P) | |
| CP906 | SJT30745JQ | CONNECTOR (7P) | |
| | | EARTH TERMINAL (S) | |
| E401A | SNE1004-2 | EARTH TERMINAL | |
| E401 | RSC0377 | SHIELD PLATE | |
| E501 | RSC0377 | SHIELD PLATE | |
| | | FUSE HOLDER(S) | |

| Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks | Ref. No. | Part No. | Values & Remarks |
|-----------|-------------|------------------|------------|--------------|------------------------|-----------|--------------|------------------|
| | | | R643, 644 | ERDS2TJ470 | 1/4W 47 | C401 | ECEA1VKA4R7B | 35V 4.7U |
| | | RESISTORS | R645-648△ | ERDS1FVJ331T | 1/2W 330 | C402, 403 | ECBT1E103ZF | 25V 0.01U |
| | | | R671-674 | ERDS2TJ223 | 1/4W 22K (EB, EO, GC) | C404 | ECEA1VKA4R7B | 35V 4.7U |
| R401, 402 | ERDS2TJ102 | 1/4W 1K | R677 | ERDS2TJ682T | 1/4W 6.8K (EB, EO, GC) | C405 | ECBT1H101KB5 | 50V 100P |
| R405-416 | ERDS2TJ102 | 1/4W 1K | R701, 702△ | ERDS1FJ330 | 1/2W 33 (EB, EO, GC) | C407-422 | ECBT1H101KB5 | 50V 100P |
| R423, 424 | ERDS2TJ102 | 1/4W 1K | R703 | ERDS2TJ332 | 1/4W 3.3K (EB, EO, GC) | C425-428 | ECEA1CKA100B | 16V 10U |
| R425-427 | ERDS2TJ103 | 1/4W 10K | R705, 706△ | ERDS1FJ330 | 1/2W 33 (EB, EO, GC) | C451, 452 | ECEA1VKA4R7B | 35V 4.7U |
| R429, 430 | ERDS2TJ104 | 1/4W 100K | R707, 708△ | ERDS1FVJ561T | 1/2W 560 | C455, 456 | ECBT1H102KB5 | 50V 1000P |
| R431, 432 | ERDS2TJ273 | 1/4W 27K | R722-724△ | ERDS1FVJ271T | 1/2W 270 | C457, 458 | ECEA1AKA330B | 10V 33U |
| R449, 450 | ERDS2EJ121 | 1/4W 120 | R725 | ERDS2TJ153 | 1/4W 15K | C459, 460 | ECQB1H223JF3 | 50V 0.022U |
| R451, 452 | ERDS2TJ224T | 1/4W 220K | R751 | ERDS2TJ122 | 1/4W 1.2K | C461, 462 | ECQB1H682JF3 | 50V 6800P |
| R453, 454 | ERDS2TJ102 | 1/4W 1K | R752 | ERDS2TJ473 | 1/4W 47K | C463, 464 | ECEA1VKA4R7B | 35V 4.7U |
| R455, 456 | ERDS2TJ563 | 1/4W 56K | R753, 754 | ERG1SJ331E | 1W 330 | C465, 466 | ECBT1E103ZF | 25V 0.01U |
| R457, 458 | ERDS2TJ271 | 1/4W 270 | R756 | ERDS2TJ102 | 1/4W 1K | C467, 468 | ECBT1H181KB5 | 50V 180P |
| R459, 460 | ERDS2TJ680T | 1/4W 68 | R772 | ERDS2TJ104 | 1/4W 100K (EB, EO, GC) | C471, 472 | ECEA1HKA3R3B | 50V 3.3U |
| R461, 462 | ERDS2TJ184T | 1/4W 180K | R773 | ERDS2TJ103 | 1/4W 10K (EB, EO, GC) | C475, 476 | ECBT1H101KB5 | 50V 100P |
| R463, 464 | ERDS2TJ123 | 1/4W 12K | R774 | ERDS2TJ223 | 1/4W 22K (EB, EO, GC) | C477, 478 | ECBT1H221KB5 | 50V 220P |
| R465, 466 | ERDS2TJ563 | 1/4W 56K | R775 | ERDS2TJ332 | 1/4W 3.3K (EB, EO, GC) | C479, 480 | ECBT1H560J5 | 50V 56P |
| R467, 468 | ERDS2TJ102 | 1/4W 1K | R776 △ | ERDS1FVJ220T | 1/2W 22 (EB, EO, GC) | C481, 482 | ECEA1VKA4R7B | 35V 4.7U |
| R475, 476 | ERDS2TJ471 | 1/4W 470 | R777 | ERDS2TJ220T | 1/4W 22 (EB, EO, GC) | C483, 484 | ECEA1HKA010B | 50V 1U |
| R477, 478 | ERDS2TJ104 | 1/4W 100K | R778 | ERDS2TJ222 | 1/4W 2.2K (EB, EO, GC) | C485, 486 | ECFR1E123KR | 25V 0.012U |
| R479, 480 | ERDS2TJ474 | 1/4W 470K | R779 | ERDS2TJ103 | 1/4W 10K (EB, EO, GC) | C487, 488 | ECQV1H683JM3 | 50V 0.068U |
| R485, 486 | ERDS2TJ223 | 1/4W 22K | R780, 781 | ERDS2TJ333 | 1/4W 33K (EB, EO, GC) | C489, 490 | ECQB1H392JF3 | 50V 3900P |
| R487-490 | ERDS2TJ392T | 1/4W 3.9K | R782 | ERDS2TJ153 | 1/4W 15K (EB, EO, GC) | C491, 492 | ECFR1E273KR | 25V 0.027U |
| R491, 492 | ERDS2TJ102 | 1/4W 1K | R783 | ERDS2TJ103 | 1/4W 10K (EB, EO, GC) | C495, 496 | ECBT1E103ZF | 25V 0.01U |
| R493, 494 | ERDS2TJ563 | 1/4W 56K | R801 | ERDS2TJ103 | 1/4W 10K | C518 | ECBT1E103ZF | 25V 0.01U |
| R495, 496 | ERDS2TJ223 | 1/4W 22K | R803 | ERDS2TJ103 | 1/4W 10K | C561, 562 | ECBT1H102KB5 | 50V 1000P |
| R497, 498 | ERDS2TJ392T | 1/4W 3.9K | R804 | ERDS2TJ102 | 1/4W 1K | C591, 592 | ECEA0JKA101B | 6.3V 100U |
| R501, 502 | ERDS2TJ222 | 1/4W 2.2K | R805, 806 | ERDS2TJ103 | 1/4W 10K | C593, 594 | ECEA0JKA220B | 6.3V 22U |
| R509, 510 | ERDS2TJ222 | 1/4W 2.2K | R807 | ERDS2TJ104 | 1/4W 100K | C601, 602 | ECEA1EKN3R3B | 25V 3.3U |
| R525, 526 | ERDS2TJ102 | 1/4W 1K | R808-810 | ERDS2TJ103 | 1/4W 10K | C603, 604 | ECBT1H271KB5 | 50V 270P |
| R528 | ERDS2TJ394 | 1/4W 390K | R811 | ERDS2TJ821 | 1/4W 820 | C605, 606 | ECEA1CKA220B | 16V 22U |
| R532 | ERDS2TJ103 | 1/4W 10K | R812 | ERDS2TJ102 | 1/4W 1K | C607, 608 | ECCR1H100K5 | 50V 10P |
| R535, 536 | ERDS2TJ103 | 1/4W 10K | R813 | ERDS2TJ122 | 1/4W 1.2K | C609, 610 | EC | |

[illegible]

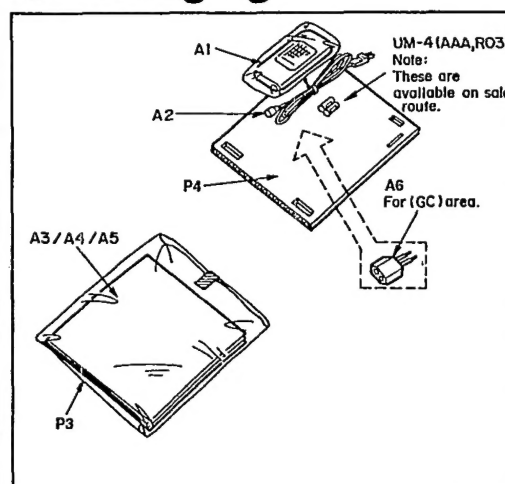
■ Cabinet Parts Location



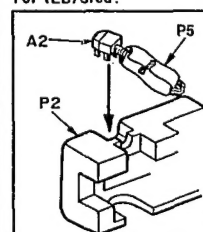
| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|-------------------------|-------------------------|
| | | CABINET PARTS | |
| 1 | RKM0036E-K | TOP CABINET | (EB) (EO) (GC) |
| 1 | RKM0036D-K | TOP CABINET | (E) (EG) (GN) |
| 2 | RFKGV500E-K | FRONT PANEL ASS'Y | |
| 3 | RGR0189B-A1 | REAR PANEL | (EB) |
| 3 | RGR0189A-A | REAR PANEL | (E) (EG) |
| 3 | RGR0189B-B | REAR PANEL | (EO) |
| 3 | RGR0189C-A | REAR PANEL | (GC) |
| 3 | RGR0189A-B1 | REAR PANEL | (GN) |
| 4 | RFKJAGX170PK | BOTTOM CHASSIS ASS'Y | |
| 4-1 | RKA0053-A | FOOT | |
| 5 | RHD30035-K | SCREW | |
| 6 | XTBS3+8JFZ1 | SCREW | |
| 7 | RFKEUV500EBK | FLAT CABLE (6P) | |
| 8 | RGW0201-K | MAIN VOLUME KNOB | |
| 9 | RKQ0089 | SPACER | |
| 10 | RMN0191 | HOLDER | |
| 11 | RGL0184A-Q1 | LEADING LIGHT PANEL (A) | |
| 12 | RGL0185A-Q | LEADING LIGHT PANEL (B) | |
| 13 | RGL0229-Q | LEADING LIGHT PANEL (C) | |
| 14 | RGU0887A-K1 | SPEAKER BUTTON | |
| 15 | RGU0889-K | TONE BUTTON | |
| 16 | RGU1038-K | INPUT SELECTOR BUTTON | |
| 17 | RGU1042-K | POWER BUTTON | |
| 18 | RGW0177A-K | TONE KNOB | |
| 19 | RHD26017 | SCREW | |
| 20 | RHD26018 | SCREW | |
| 21 | RHN90001 | NUT | |
| 22 | SNE2123 | GND SCREW | |
| 23 | XTB3+20JFZ | SCREW | |
| 24 | XTB3+8JFZ | SCREW | |
| 25 | XTW3+15T | SCREW | |
| 26 | REM0020 | FAN ASS'Y | (EB) (EO) (GC) |
| 26-1 | SHE232-1 | FAN | (EB) (EO) (GC) |
| 26-2 | SUS271 | SPRING | (EB) (EO) (GC) |
| 26-3 | RMQ0209-K | FAN CASE | (EB) (EO) (GC) |
| 26-4 | MDN-4RB4MRC | MOTOR | (EB) (EO) (GC) |
| 26-5 | RMQ0208-K | FAN CAP | (EB) (EO) (GC) |
| 26-6 | RMQ0212-K | TERMINAL CAP | (EB) (EO) (GC) |
| 27 | RMG0332-K | RUBBER | |
| 28 | RSC0105-2 | SHIELD PLATE | |
| 29 | RFKEUV500EAK | FLAT CABLE (6P) | (E) (EG) (GN) |
| 29 | RFKEUV500EOK | FLAT CABLE (9P) | (EB) (EO) (GC) |
| 30 | RFKEUV500ECK | PROTECT TUBE | (E) (EG) (GN) |
| | | PACKING MATERIALS | |
| P1 | RPG2022 | PACKING CASE | (EB) |
| P1 | RPG2021 | PACKING CASE | (E) (EG) (EO) (GC) (GN) |
| P2 | RPND684-1 | PAD | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|----------|--------------|----------------------------|---------------------------|
| P3 | XZB24X34C04 | PROTECTION COVER | |
| P4 | RPQ0164 | PAD | |
| P5 | RPND032 | SHEET | (EB) (GN) |
| P6 | XZB50X65A02Z | PROTECTION COVER | |
| | | ACCESSORIES | |
| A1 | RAK-SU129W1 | REMOTE CONTROL TRANSMITTER | |
| A1-1 | RKK0057-K | BATTERY COVER | |
| A2 | VJA0733 | AC POWER SUPPLY CORD | (EB) Δ (SF) |
| A2 | RJA0019-2K | AC POWER SUPPLY CORD | (E) (EG) (EO) (GC) Δ (SF) |
| A2 | RJA0036-K | AC POWER SUPPLY CORD | (GN) Δ |
| A3 | RQA0013 | WARRANTY CARD | (E) (EB) (EG) (EO) |
| A3 | RQX7433ZA | WARRANTY CARD | (GN) |
| A4 | RQCB0169 | SERVICE CENTER LIST | |
| A5 | RFKSUV500E-K | INSTRUCTIONS MANUAL | (E) |
| A5 | RFKSUV500EBK | INSTRUCTIONS MANUAL | (EB) (GN) |
| A5 | RFKSUV500EGK | INSTRUCTIONS MANUAL | (EG) |
| A5 | RFKSUV500EOK | INSTRUCTIONS MANUAL | (EO) |
| A5 | RFKSUV500GCK | INSTRUCTIONS MANUAL | (GC) |
| A6 | SJP5213-2 | POWER PLUG ADAPTOR | (GC) Δ |

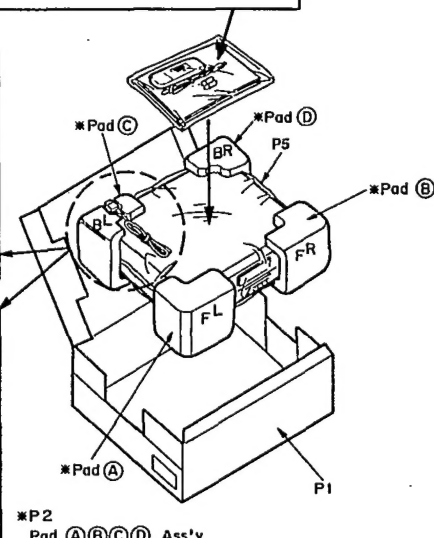
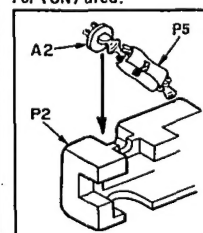
■ Packaging



For (EB) area.



For (GN) area.



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